

Keywords: Alpha AXP chip

⁵ Measuring VAX 8800 performance with a histogram hardware monitor D. W. Clark, P. J. Bannon, J. B. Keller



ACM SIGARCH Computer Architecture News , Proceedings of the 15th Annual International Symposium on Computer architecture, Volume 16 Issue 2

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper reports the results of a study of VAX 8800 processor performance using a hardware monitor that collects histograms of the processor's micro-PC and memory bus status. The monitor keeps a count of all machine cycles executed at each micro-PC location, as well as counting all occurrences of each bus transaction. It can measure a running system without interfering with it, and this paper's results are based on measurements of live timesharing. Because the 8800 is a microcoded machine ...

⁶ The Clipper processor: instruction set architecture and implementation W. Hollingsworth, H. Sachs, A. J. Smith February 1989 Communications of the ACM, Volume 32 Issue 2



Full text available: pdf(4.67 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Intergraph's CLIPPER microprocessor is a high performance, three chip module that implements a new instruction set architecture designed for convenient programmability, broad functionality, and easy future expansion.

Cache Performance in the VAX-11/780

Douglas W. Clark

February 1983 ACM Transactions on Computer Systems (TOCS), Volume 1 Issue 1

Full text available: pdf(880,15 KB)

Additional Information: full citation, references, citings, index terms

Keywords: hardware monitor, hit ratio

Performance of the VAX-11/780 translation buffer: simulation and measurement Douglas W. Clark, Joel S. Emer



Full text available: pdf(2.36 MB)

Additional Information: full citation, abstract, references, citings, index terms

A virtual-address translation buffer (TB) is a hardware cache of recently used virtual-tophysical address mappings. The authors present the results of a set of measurements and simulations of translation buffer performance in the VAX-11/780. Two different hardware monitors were attached to VAX-11/780 computers, and translation buffer behavior was measured. Measurements were made under normal time-sharing use and while running reproducible synthetic time-sharing work loads. Reported measure ...

Pipelining and performance in the VAX 8800 processor

Douglas W. Clark

October 1987 Proceedings of the second international conference on Architectual support for programming languages and operating systems, Volume 15, 22, 21 Issue 5, 10,4

Full text available: pdf(531.67 KB)

Additional Information: full citation, abstract, references, citings, index terms

The VAX 8800 family (models 8800, 8700, 8550), currently the fastest computers in the VAX product line, achieve their speed through a combination of fast cycle time and deep pipelining. Rather than pipeline highly variable VAX instructions as such, the 8800 design pipelines uniform microinstructions whose addresses are generated by instruction unit hardware. This design approach helps achieve a fast cycle time, which is the prime determinan of performance. Some preliminary measurements of cycles ...

10 The rewards of generating true 32-bit code

Michael Franz

January 1991 ACM SIGPLAN Notices, Volume 26 Issue 1

Full text available: pdf(207.80 KB)

Additional Information: full citation, index terms

Shasta: a low overhead, software-only approach for supporting fine-grain shared memory



Daniel J. Scales, Kourosh Gharachorloo, Chandramohan A. Thekkath

October 1996 Proceedings of the seventh international conference on Architectural support for programming languages and operating systems, Volume 30, 31 Issue 5, 9

Full text available: pdf(1.49 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes Shasta, a system that supports a shared address space in software on clusters of computers with physically distributed memory. A unique aspect of Shasta compared to most other software distributed shared memory systems is that shared data can be kept coherent at a fine granularity. In addition, the system allows the coherence granularity to vary across different shared data structures in a single application. Shasta implements the shared address space by transparently rewrit ...

¹² The KScalar simulator

J. C. Moure, Dolores I. Rexachs, Emilio Luque

March 2002 Journal on Educational Resources in Computing (JERIC), Volume 2 Issue 1



Additional Information: full citation, abstract, references, index terms

Modern processors increase their performance with complex microarchitectural mechanisms, which makes them more and more difficult to understand and evaluate. KScalar is a graphical simulation tool that facilitates the study of such processors. It allows students to analyze the performance behavior of a wide range of processor microarchitectures: from a very simple in-order, scalar pipeline, to a detailed out-of-order, superscalar pipeline with non-blocking caches, speculative execution, and comp ...

Keywords: Education, pipelined processor simulator

¹³ Efficient decomposition and performance of parallel PDE, FFT, Monte Carlo simulations, simplex, and sparse solvers



Zarka Cvetanovic, Edward G. Freedman, Charles Nofsinger
November 1990 Proceedings of the 1990 ACM/IEEE conference on Supercomputing

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references

In this paper, we describe the decomposition of six algorithms: two Partial Differential Equations (PDE) solvers (Successive Over-Relaxation (SOR) and Alternating Direction Implicit (ADI)), Fast Fourier Transform (FFT), Monte Carlo simulations, Simplex linear programming, and Sparse solvers. The algorithms were selected not only because of their importance in scientific applications, but also because they represent a variety of computational (structured to irregular) and communicat ...

Porting OpenVMS from VAX to Alpha AXP



Nancy Kronenberg, Thomas R. Benson, Wayne M. Cardoza, Ravindran Jagannathan, Benjamin J. Thomas

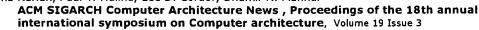
February 1993 Communications of the ACM, Volume 36 Issue 2

Full text available: pdf(3.29 MB)

Additional Information: full citation, references, citings, index terms

Keywords: 64-bit address space, Alpha AXP, I/O mailboxes, OpenVMS, RISC, VMS, atomic instructions, memory granularity, memory read/write ordering, operating system porting, page tables, synchronized access to shared data, translation buffers

¹⁵ Classification and performance evaluation of instruction buffering techniques Lizyamma Kurian, Paul T. Hulina, Lee D. Coraor, Dhamir N. Mannai



Full text available: pdf(940.03 KB)

Additional Information: full citation, references, citings, index terms

Multiprocessor cache analysis using ATUM

R. L. Sites, A. Agarwal

May 1988 ACM SIGARCH Computer Architecture News, Proceedings of the 15th Annual International Symposium on Computer architecture, Volume 16 Issue 2

Full text available: pdf(1.38 MB)

Additional Information: full citation, abstract, references, citings, index terms

The design of high-performance multiprocessor systems necessitates a careful analysis of the memory system performance of parallel programs. Lacking multiprocessor address traces, previous multiprocessor performance studies using analytical models had to make an inordinate number of assumptions about the underlying memory reference patterns. We previously developed a scheme called ATUM - Address Tracing Using Microcode - to get reliable operating system and multiprogramming traces on single ...

¹⁷ A characterization of processor performance in the VAX-11/780

Joel S. Emer, Douglas W. Clark

August 1998 25 years of the international symposia on Computer architecture (selected papers)

Full text available: pdf(1.12 MB)

Additional Information: full citation, references, index terms

¹⁸ A Characterization of Processor Performance in the vax-11/780

Joel S. Emer, Douglas W. Clark

January 1984 ACM SIGARCH Computer Architecture News, Proceedings of the 11th annual international symposium on Computer architecture, Volume 12 Issue 3

Full text available: pdf(980.44 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper reports the results of a study of VAX-11/780 processor performance using a novel hardware monitoring technique. A micro-PC histogram monitor was built for these measurements. It keeps a count of the number of microcode cycles executed at each microcode location. Measurement experiments were performed on live timesharing workloads as well as on synthetic workloads of several types. The histogram counts allow the calculation of the frequency of various architectural events, such as ...

19 On tuning the microarchitecture of an HPS implementation of the VAX James E. Wilson, Steve Melvin, Michael Shebanow, Wen-mei Hwu, Yale N. Patt December 1987 Proceedings of the 20th annual workshop on Microprogramming

Full text available: pdf(744.71 KB)

Additional Information: full citation, abstract, references, citings

The HPS Microarchitecture has been developed as an execution model for implementing various architectures at very high performance. A considerable amount of effort has gone into the use of HPS as a microarchitecture for the VAX. In this paper, we describe our first full simulation of the microVAX subset, and report the results of varying (i.e. tuning) certain important parameters.

²⁰ The suitability of the VAX for a course in assembly language

Robert W. Sebesta

February 1983 ACM SIGCSE Bulletin , Proceedings of the fourteenth SIGCSE technical symposium on Computer science education, Volume 15 Issue 1

Full text available: pdf(423.55 KB)

Additional Information: full citation, abstract, references, index terms

This paper describes the assembly language course we teach, using a Digital Equipment Corporation VAX-11/780 minicomputer, in which structured programming is stressed. It also discusses the relative merits and disadvantages of choosing the VAX as the computer to be used in such a course. The first section of the paper provides a quick survey of the VAX architecture. The second describes our course in assembly language, including our method of structuring assembly language program ...

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Patent 4897779: Method and apparatus for optimizing inter ...

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Patent 4825355: Instruction format for program control type data ...

... in response to an **instruction** having an operation code, **first** and **second** ... In response to the decode operation, the **first instruction** of a sequence of ... www.freepatentsonline.com/4825355.html - 33k - <u>Cached</u> - <u>Similar pages</u>
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VAX MACRO and Instruction Set Reference Manual

After the interruption, the **instruction** resumes transparently. ... N|| < --- {**first** byte} LSS {**second** byte}; Z|| < --- {**first** byte} EQL {**second** byte}; ... www.openvms.compaq.com:8000/72final/4515/4515pro_025.html - 40k - <u>Cached</u> - <u>Similar pages</u>

The Sega Programming Network

An add **instruction** simply adds the **first** operand to the **second** operand. ...

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Lecture 18

... The result of the **first instruction** is needed to begin the work of the **second**. ... Anti-dependency: The **second instruction** overwrites the variable whose ... www.cs.albany.edu/~sdc/csi504/Lect18/ - 7k - <u>Cached</u> - <u>Similar pages</u>

68000 Instructions · Chapter 4 · Assemblers

This instruction first checks to see if the condition is false. ... sized signed operands and leaves a long word sized signed result in the second operand. ... www.powermops.com/MopsManual/Assemblers/Chapter4.html - 49k - Cached - Similar pages

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Data processing device having a central processing unit and ...

wherein when the **first** processing unit decodes the **second instruction** of the **second** type ... When **long word** data is input through the data bus 112 (in FIG. ... www.patentstorm.us/patents/6889240.html - 55k - Cached - Similar pages

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